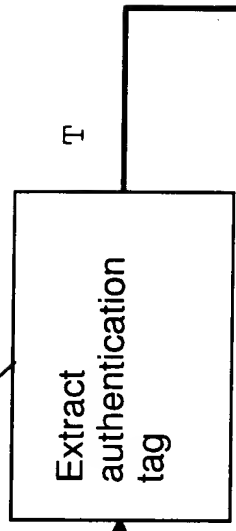


Figure 1a

104



I_a

Does T
corresponds
to I_a ?

105

no

Data is not authentic

yes

Data is authentic

Figure 1b

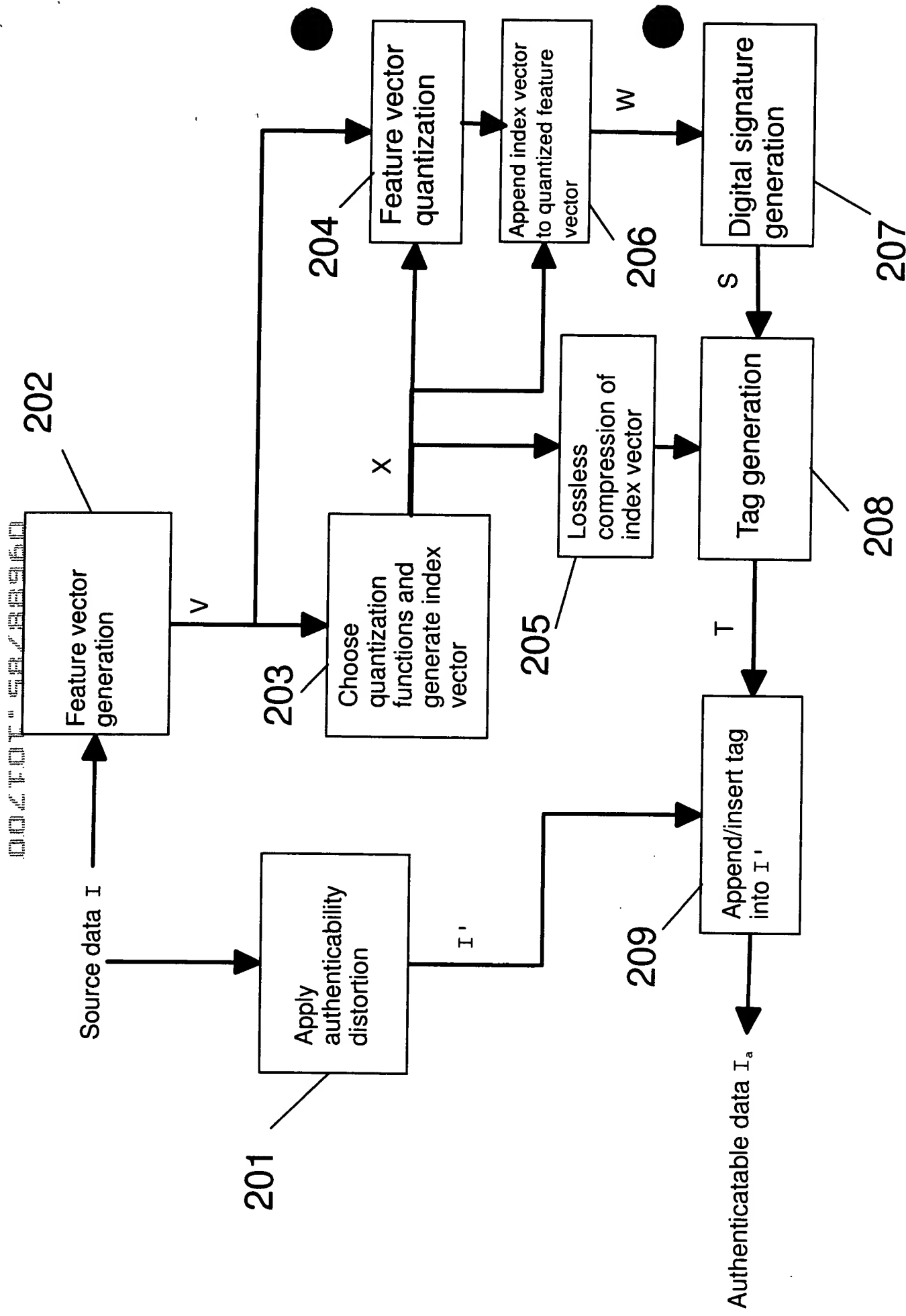


Figure 2a

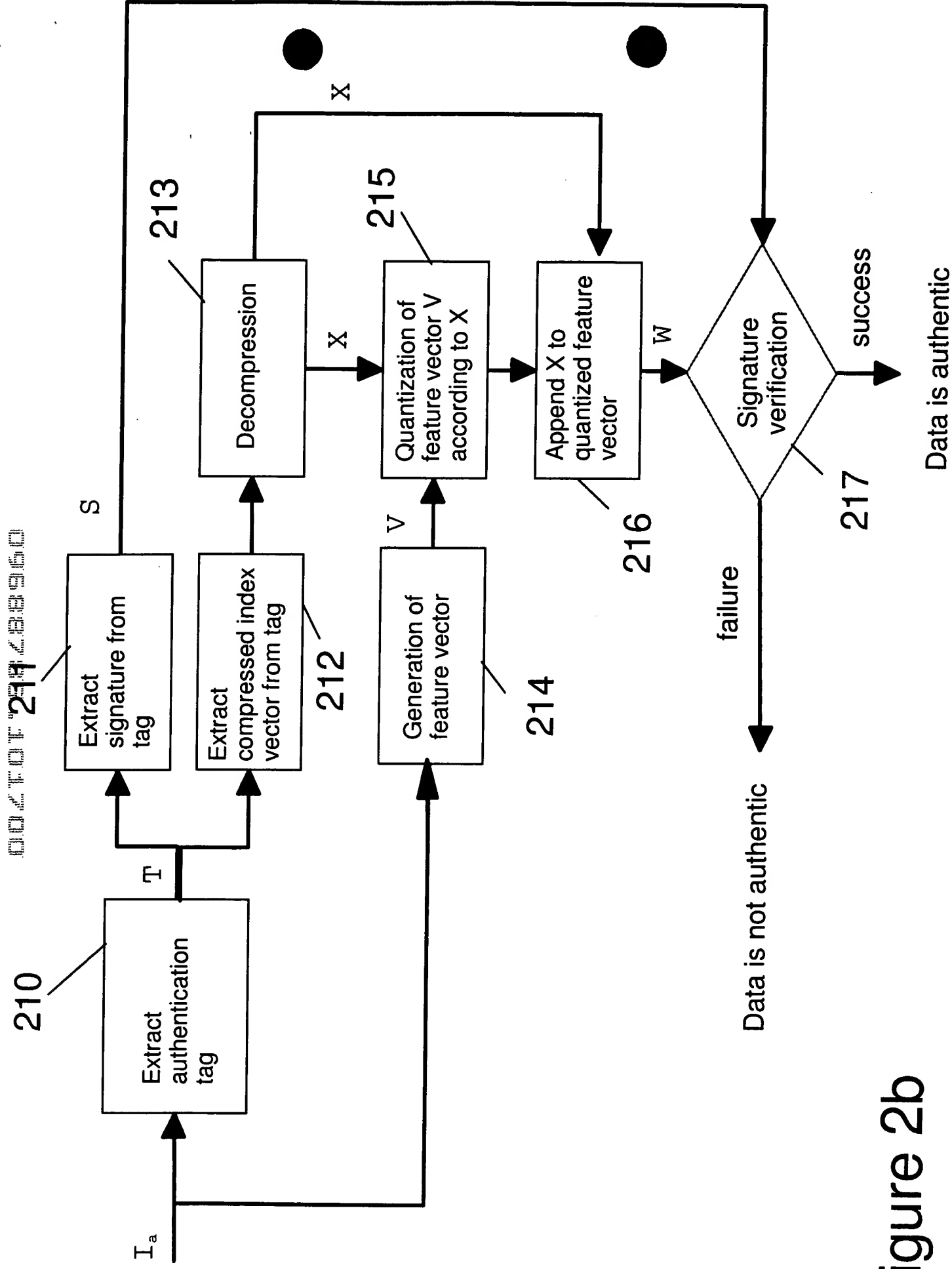


Figure 2b

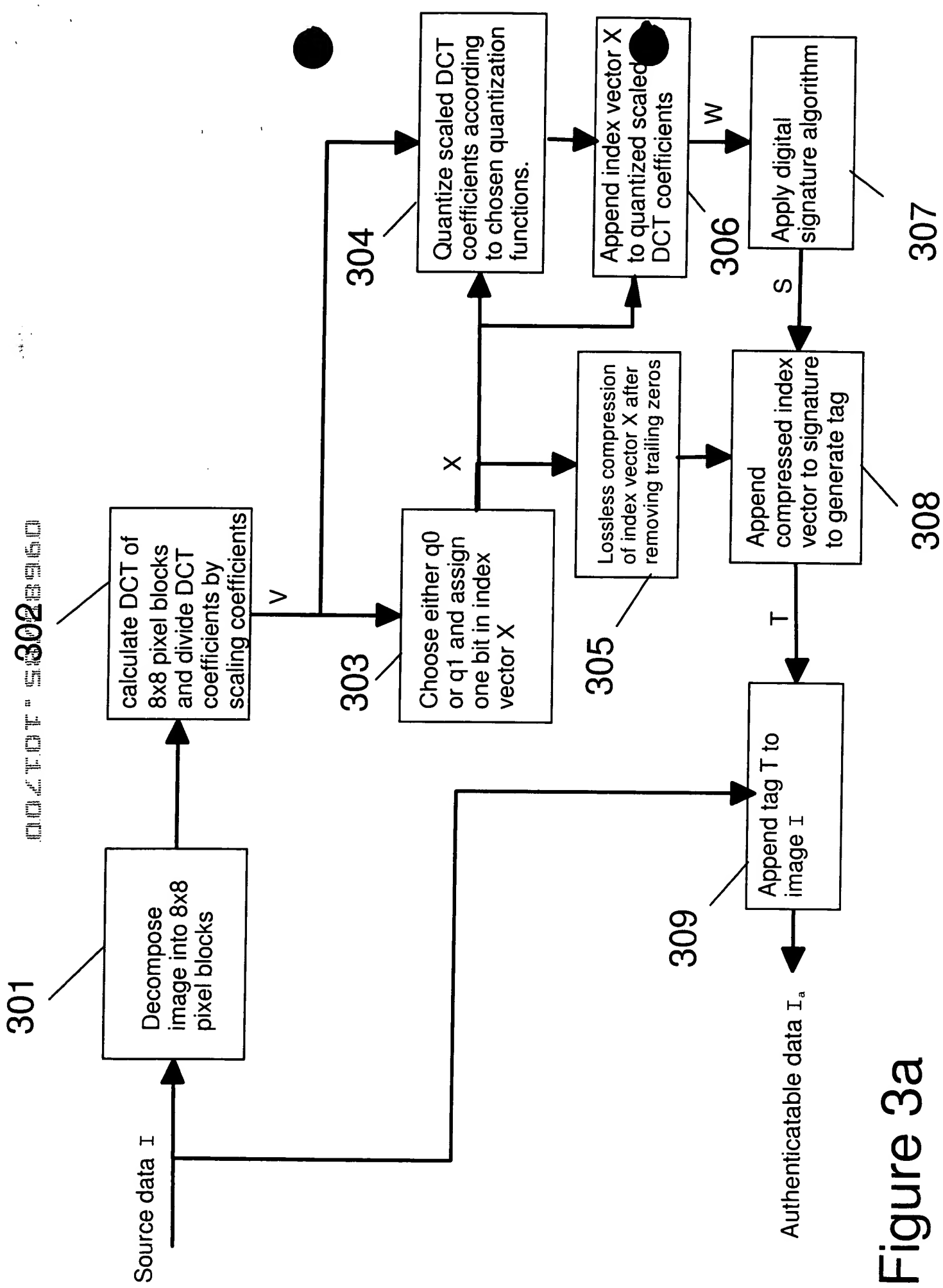


Figure 3a

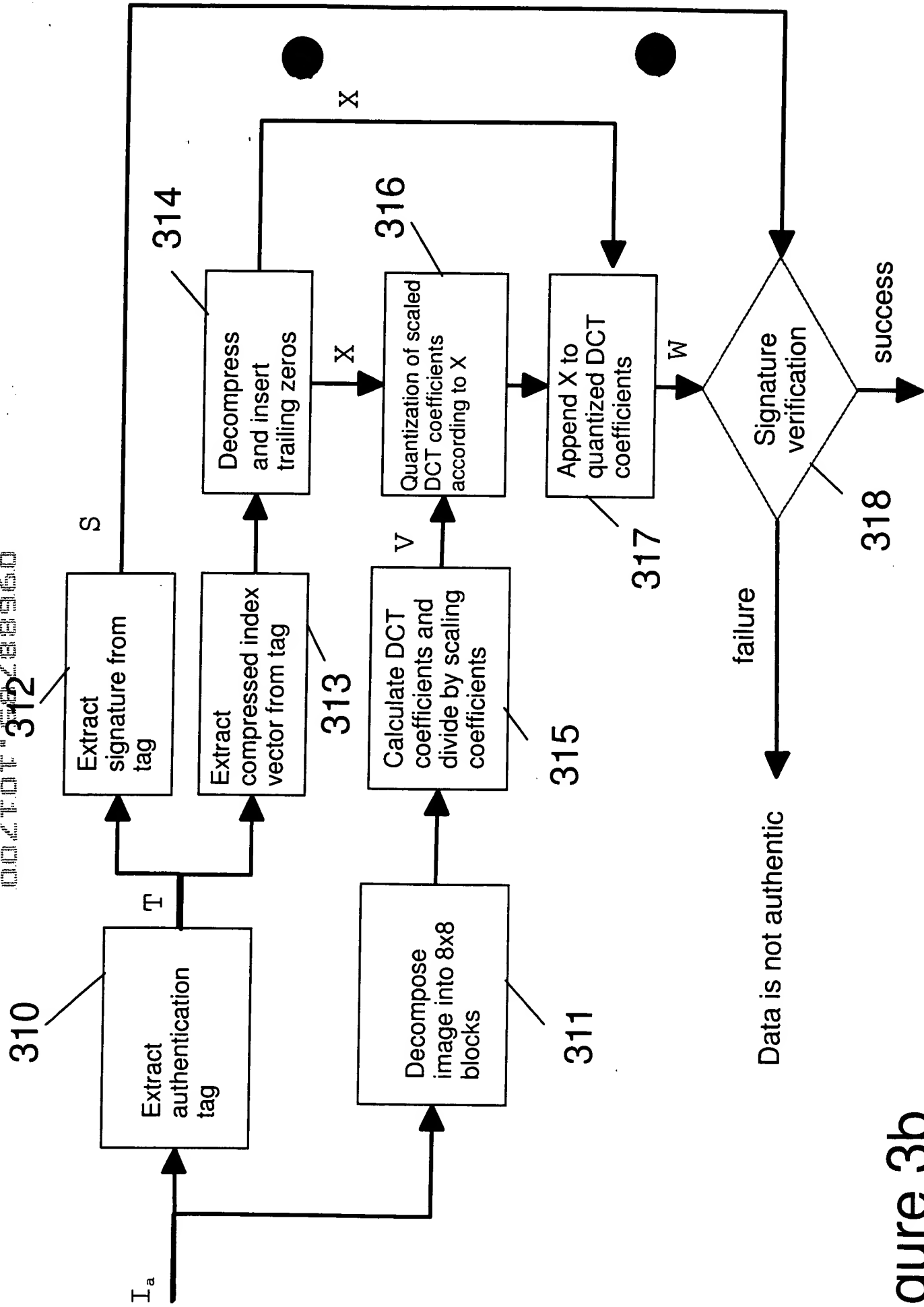


Figure 3b

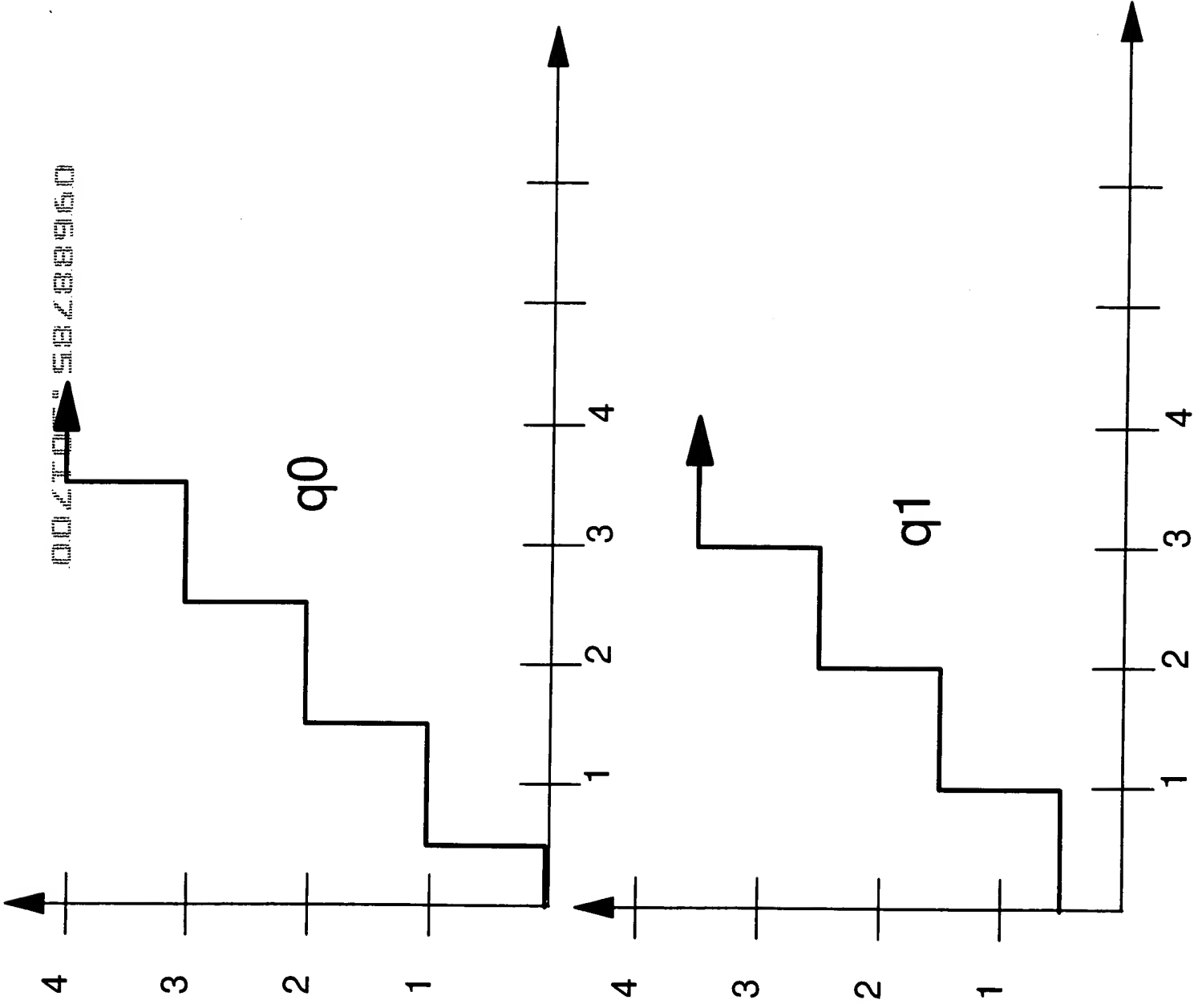
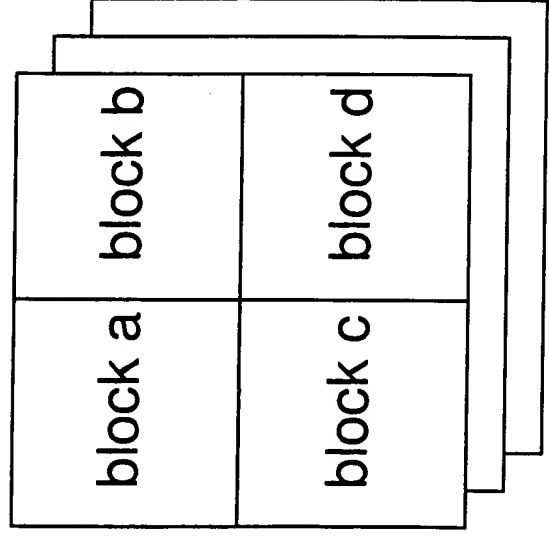


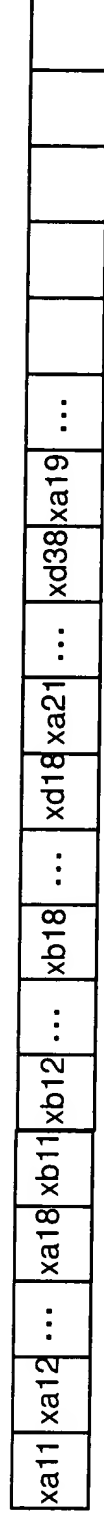
Figure 4



Color image

DCT coefficients of block a of color plane 1

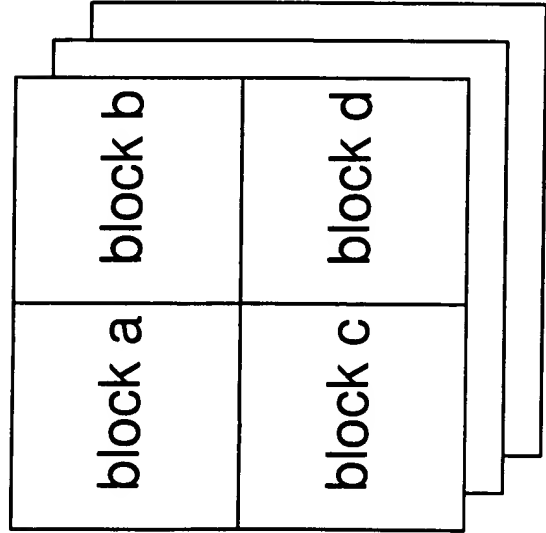
Bits of index vector X



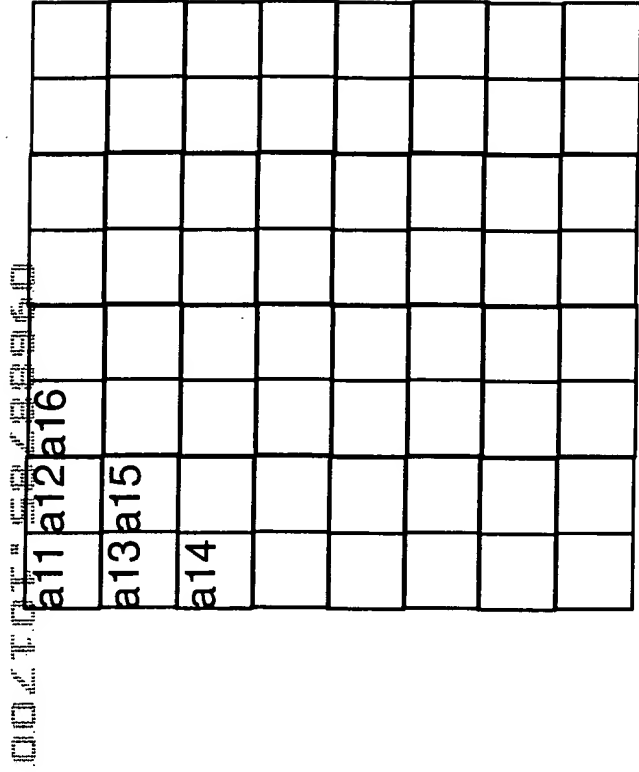
a_{ij} is the j -th DCT coefficient of block a of color plane i .

x_{aij} is the bit corresponding to the quantization function chosen for DCT coefficient a_{ij} .

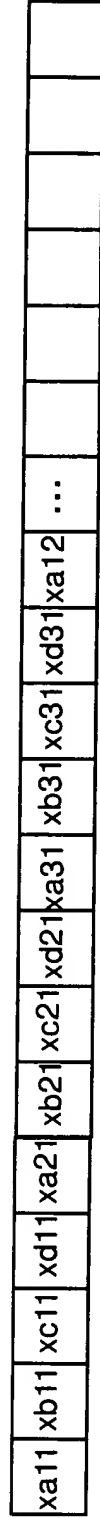
Figure 5b



Color image



DCT coefficients of block a of color plane 1



Bits of index vector X

a_{ij} is the j -th DCT coefficient of block a of color plane i .
 $x_{a_{ij}}$ is the bit corresponding to the quantization function chosen for DCT coefficient a_{ij} .

Figure 5c

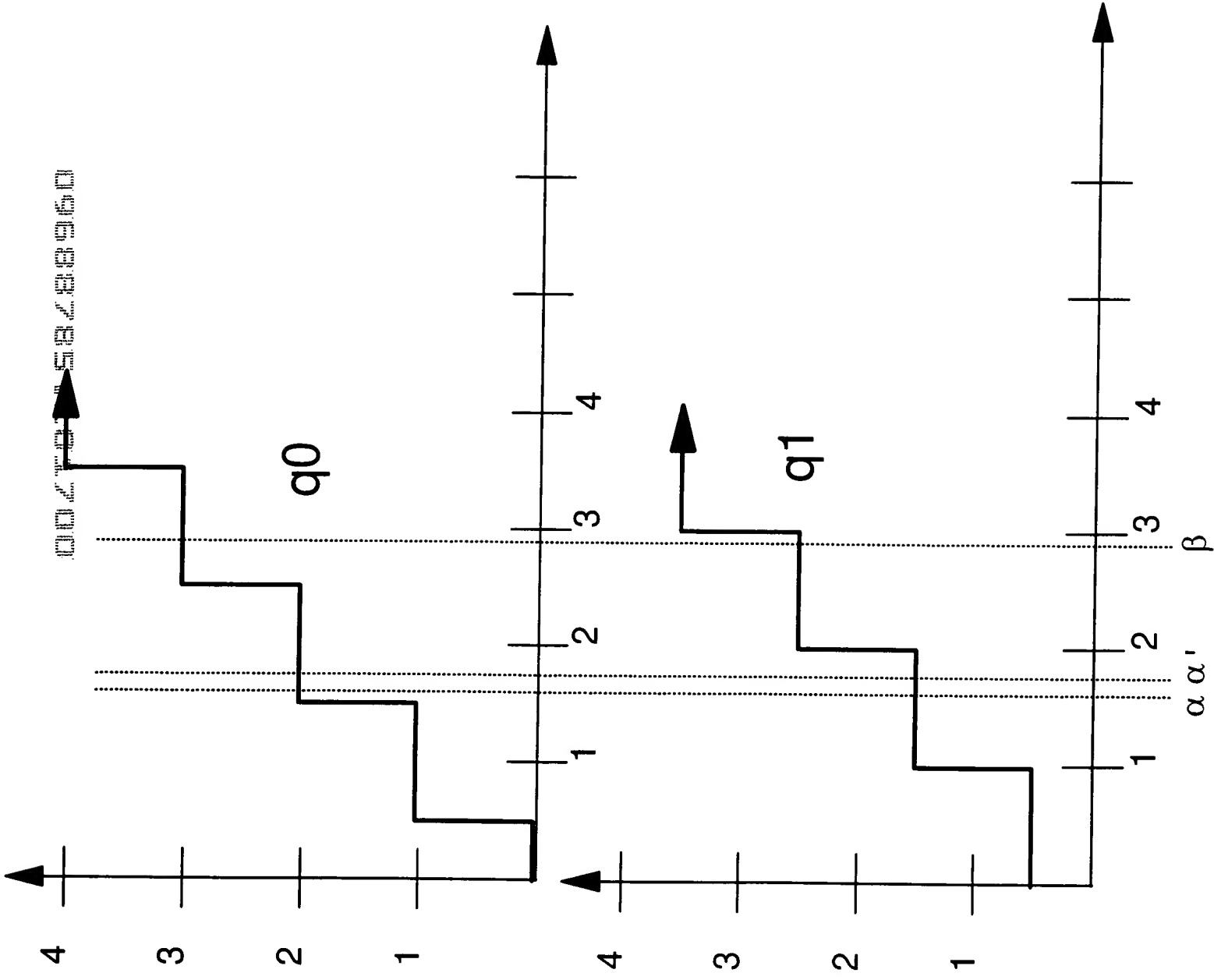


Figure 6

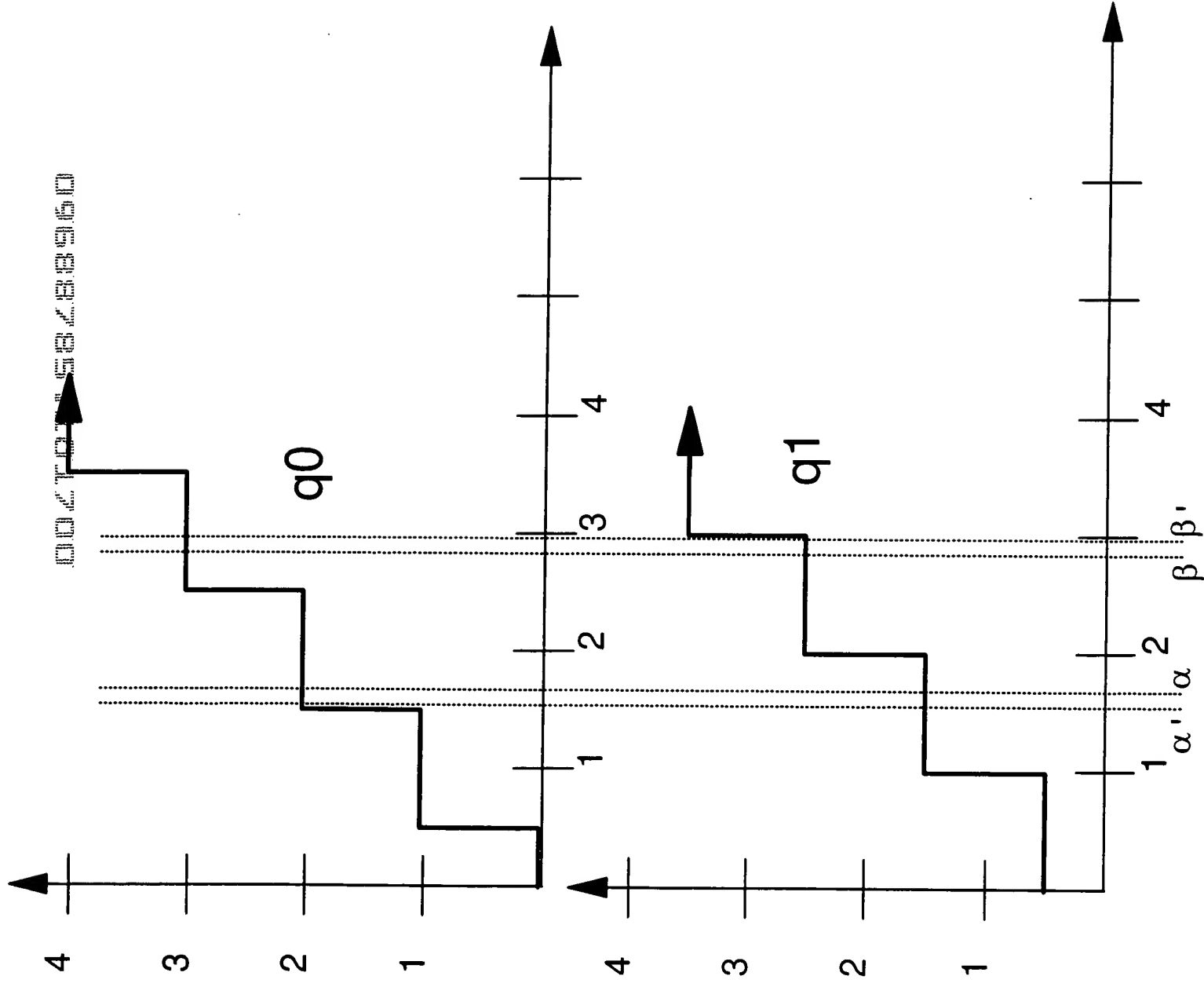
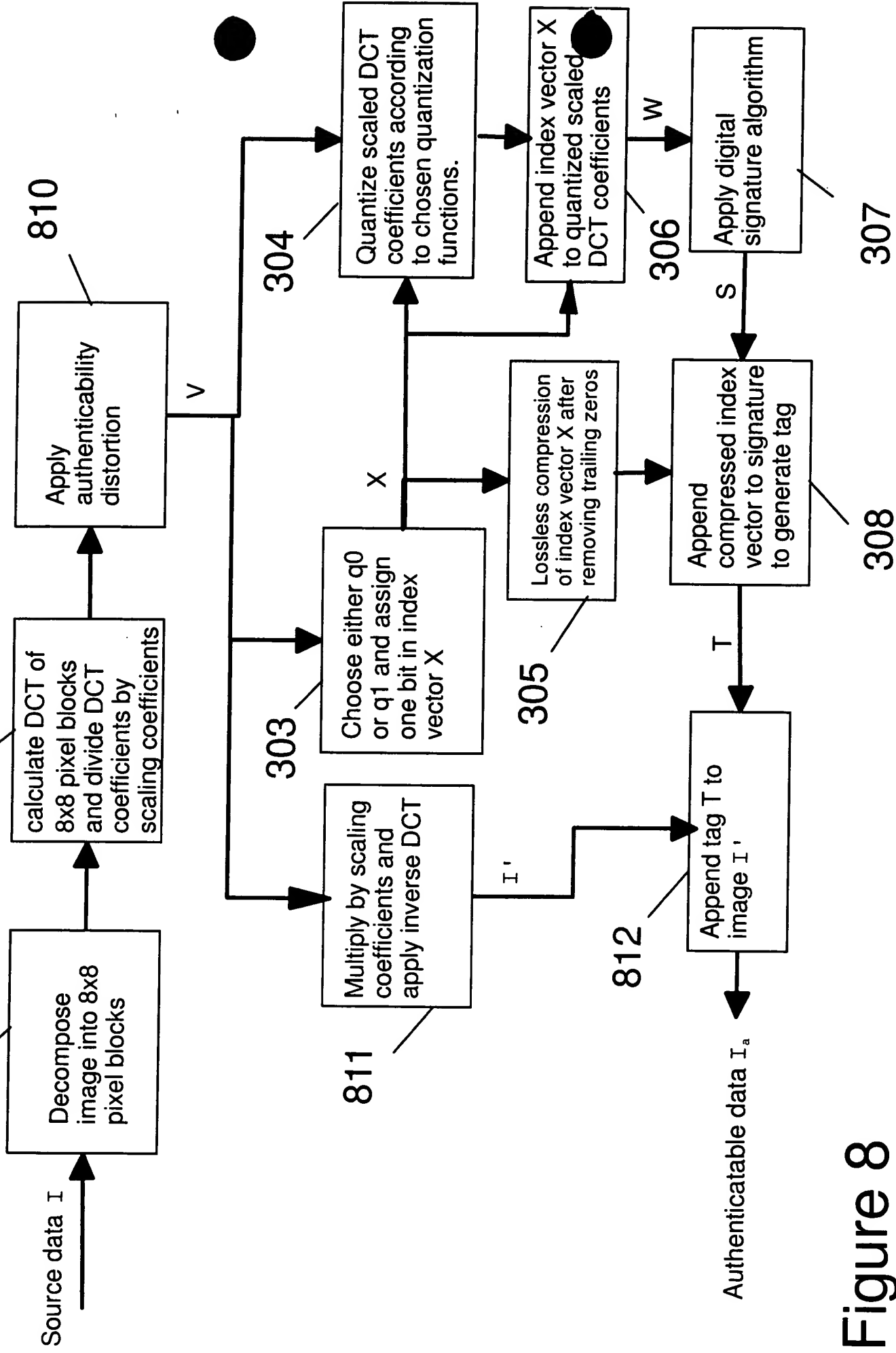


Figure 7



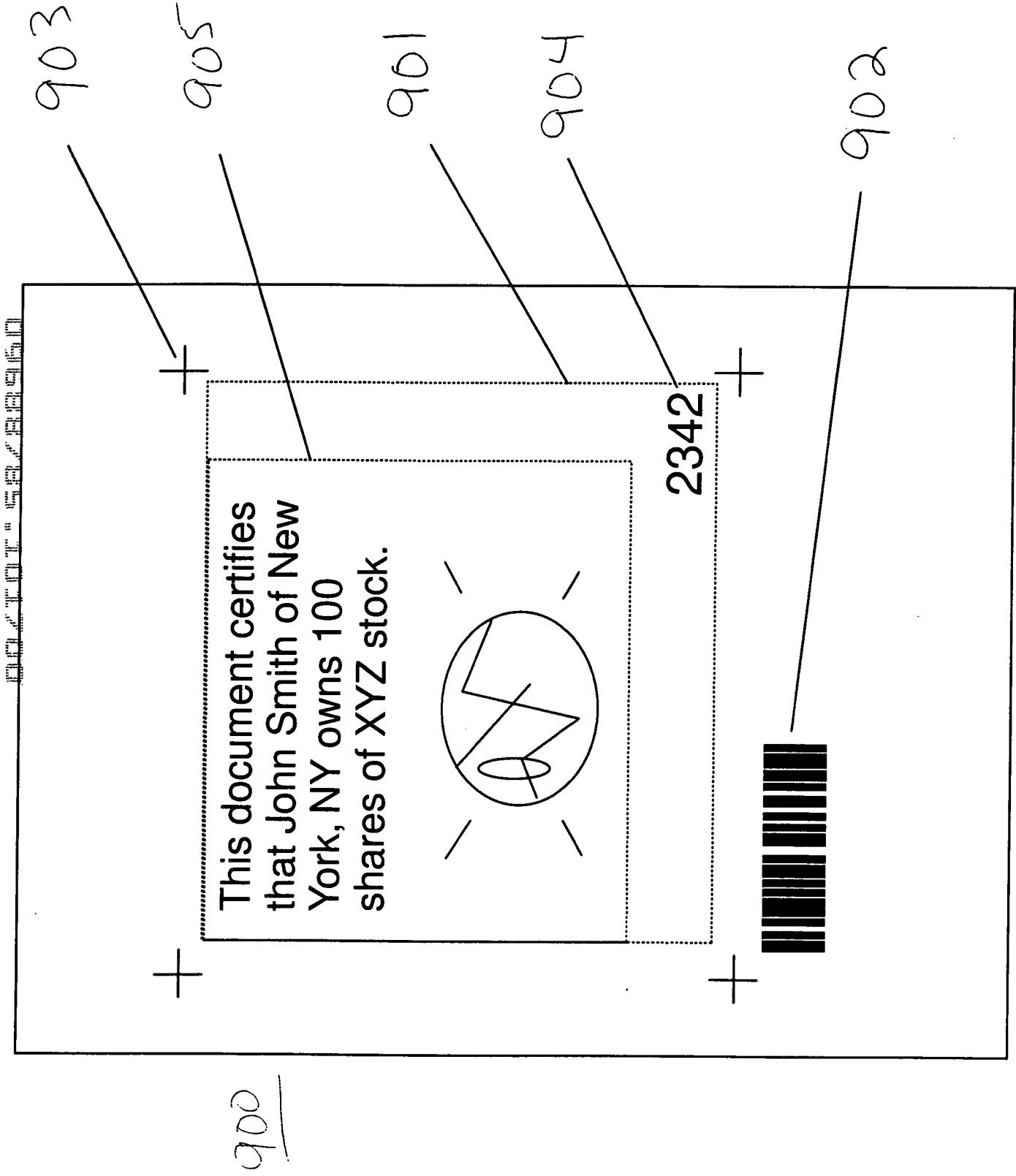


Figure 9

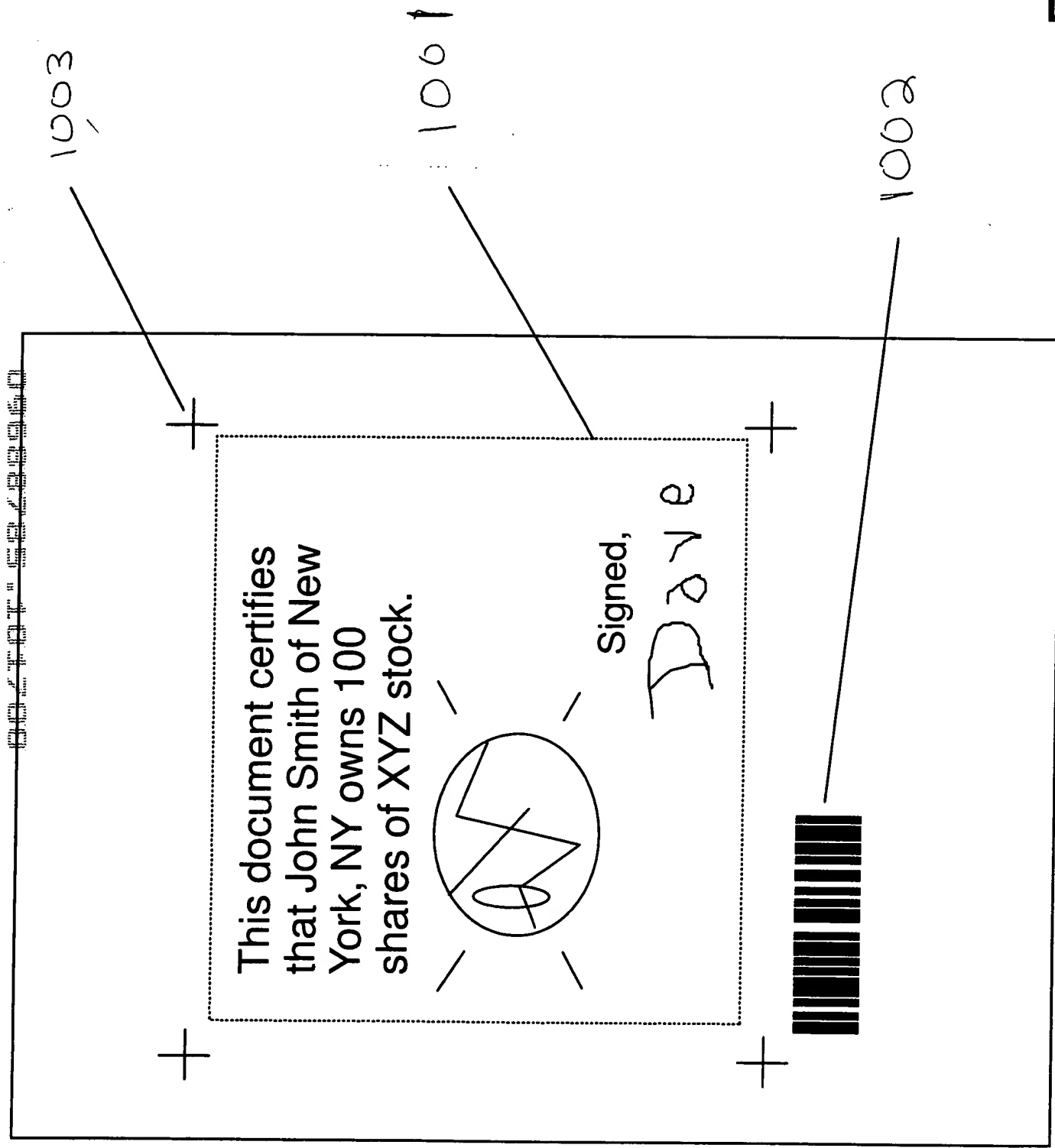


Figure 10

002107 58288960

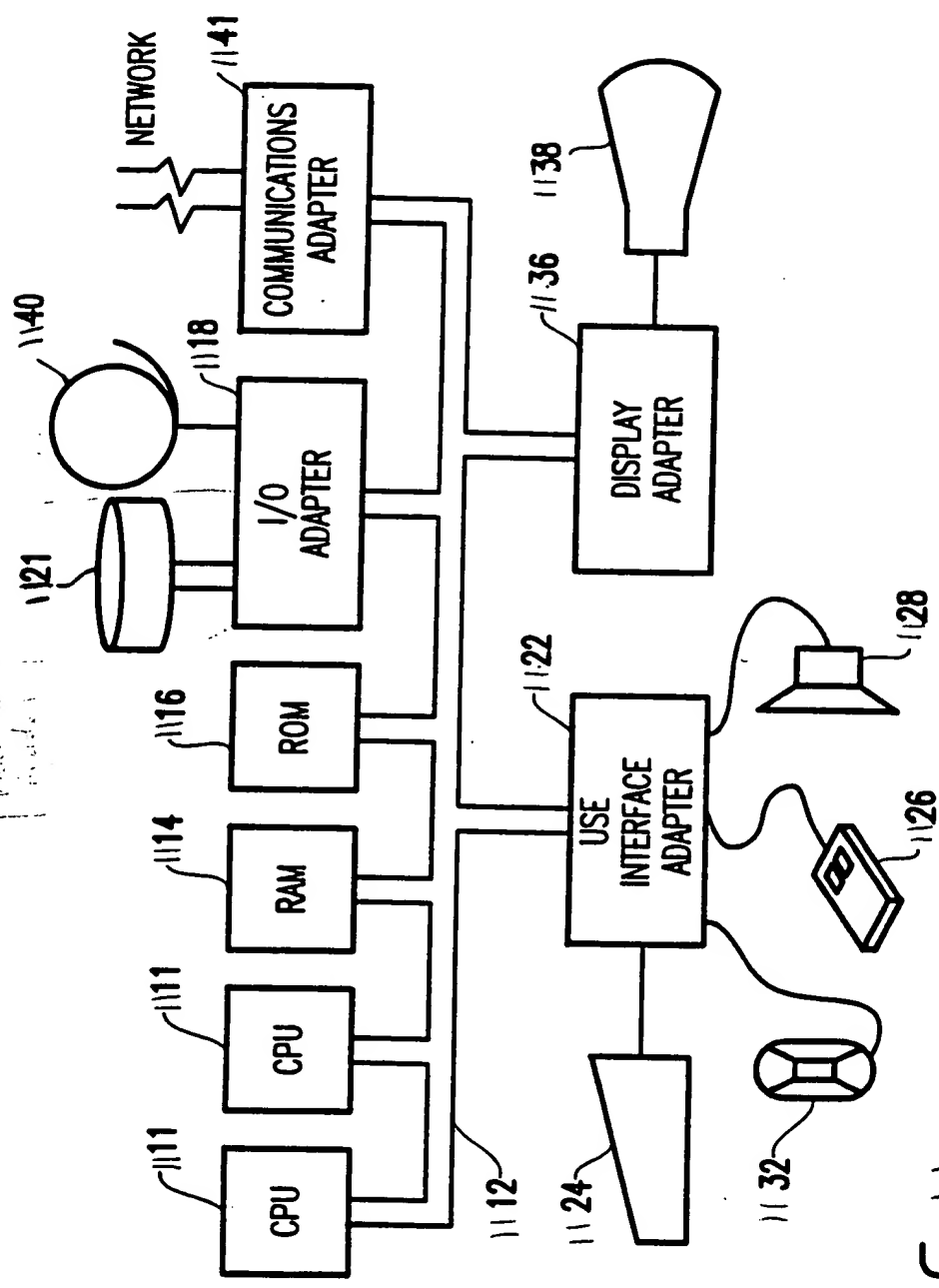


FIG. 11

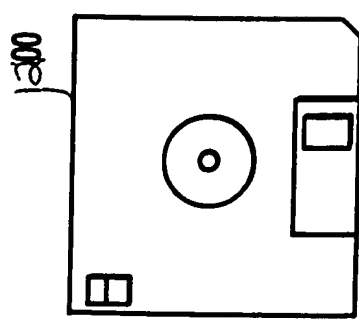


FIG. 12